






# Scanner utilizing light pipe with diffuser

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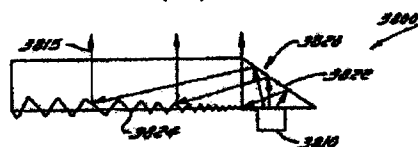
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A scanner that can include a light source (3810) emitting light through a light pipe (3820) to a detector array. The light pipe can include a reflective surface (3822) and a diffuser (3824). The reflective surface can reflect light (3815), directly or indirectly towards the diffuser and the diffuser can diffuse the light out of the light pipe. The light pipe can further include a reflective groove that reflects light from the reflective surface towards the diffuser. The diffuser can diffuse the light to an object that reflects the light to the detector array. The object may be a bar code, paper money, or any other object that can be scanned. The diffuser may be a variable diffuser.



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